

Date of print: 2006-06-20

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DETAXArt. -No., product name: **02691-3 / 02905 tempofit[®], base + catalyst****1 Identification of the substance / preparation and of the company / undertaking**

1.1 Identification of the substance or preparation:

1.1.1 Commercial Product Name: tempofit[®]

1.1.2 Use: Self curing composite material for use in dentistry

1.2 Company / undertaking identification:

Manufacturer / distributor: DETAX GmbH & Co. KG

Street / POB-No.: Carl-Zeiss-Str. 4

State / postal code / city: D-76275 Ettlingen

Telephone: +49 7243/510-0 Telefax: +49 7243/510-100

2 Composition / information on ingredients

2.1 Chemical characterisation (preparation): Description: Mixture of methacrylic resins and silane treated glass with auxiliary matters and pigments.

3 Hazards identification

3.1 Critical hazards to man and environment: If stored and handled in accordance with standard industrial practices, no damage to health is to be expected.

4 First aid measures

4.1 General information: Take off immediately all contaminated clothing. Medical advice is necessary in case of symptoms evidently being due to the contact of this product with skin and eyes, or being due to the inhalation of its vapours.

4.2 After inhalation: Move to fresh air immediately and lay the victim restful down, in case of respiratory distress in a stable lateral position. Seek medical advice immediately.

4.3 After contact with the skin: Wash with plenty of water and soap. Do not use organic solvents! In case of skin irritation seek medical advice.

4.4 After contact with the eyes: Rinse immediately with plenty of water for at least 15 minutes and seek medical advice immediately.

4.5 After swallowing: Seek medical advice immediately. Rinse mouth well with water and drink plenty of water. Do not induce vomiting!

5 Fire fighting measures

5.1 Suitable extinguishing media: Water mist, dry powder, foam, carbon dioxide.

5.2 Extinguishing media, which must not be used for safety reasons: Water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Do not breathe combustion gases.

5.4 Special protective equipment for fire fighting: Use respiratory protection independent of recirculated air. Wear suitable protective clothing. Accomplish decontamination by means of explosion-proofed equipment.

6 Accidental release measures

6.1 Personal precautions: Avoid exposure. Wear suitable protective clothing. Provide for sufficient ventilation.

6.2 Environmental precautions: Observe local byelaws. Keep away from sewage treatment plants, inshore waters and earth.

6.3 Methods for cleaning up: Absorb mechanically or with liquid binding material (diatomaceous earth) and dispose of according to regulations.

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7.1 Handling:

Precautions for safe handling: Avoid contact of unpolymerised product with eyes, skin and clothing.

Precautions against fire and explosion: Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Cool endangered containers with water. Do not breathe combustion gases.

7.2 Storage:

Conditions for storage rooms and vessels: Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs. Keep container always tightly closed.

Advice for storage of incompatible materials: Keep away from oxidising agents, alkaline or acid substances.

Further information for storage: Keep in a refrigerator at $10^{\circ} \pm 2^{\circ} \text{C} / 50^{\circ} \pm 3.6^{\circ} \text{F}$.**8 Exposure controls / personal protection**

8.1 Further information for system design and engineering measures:

Provide for sufficient ventilation/suction system.

8.2 Associate substance with specific control parameters such as limit values: -

8.3 Personal protection equipment:

General protection and hygiene measures: Avoid contact with eyes and skin. Take off immediately all contaminated clothing. Do not breathe vapours.

Respiratory protection (filter A): Necessary in case of insufficient ventilation, liberation of vapours due to overheating.

Hand protection: Protective gloves of polyethylene or polypropylene.

Eye protection: Protective glasses.

9 Physical and chemical properties

9.1 Appearance:

Form: paste
Colour: tooth-like
Odour: almost odourless

9.2 Safety parameters:

Method (67 / 548 / EC)

Change in physical state.....:		
Boiling point... ..:		DIN 51356
Flash point	= > 100 °C/212 °F	DIN 51755
Inflammability		
Ignition temperature	not available	DIN 51794
Autoflammability.....:		
Oxidising properties		
Explosive properties.....:		
Explosion limits		
Vapour pressure	= < 1 hPa at 20 °C/68 °F	
Density	= approx. 1.65 g/cm ³ at 20 °C/68 °F	DIN 51757
Solubility in water	= insoluble	
pH-value.....:	n.a.	
Distribution coefficient octanol / water:		

9.3 Further information:

Thermal decomposition:: not available

10 Stability and reactivity

10.1 Conditions to avoid: -

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- 10.2 Materials to avoid: Reducing agents, free-radical producing initiators, heavy metal ions.
- 10.3 Hazardous decomposition products: None, if handled in appropriate manner. In case of fire acrid acrylic fumes could occur.

11 Toxicological information

- 11.0 General information: Prolonged exposure or larger amounts of the product may irritate the eyes, the skin and the mucous membranes. In persons bearing a special disposition, the product may cause allergic reactions by skin contact.
- 11.1 Acute toxicity:
- Acute oral toxicity (LD₅₀): species rat > 5 000 mg/kg
origin: literature
these data refer to the methacrylate components.
- Acute cutaneous toxicity (LC₅₀): species rabbit > 3 000 mg/kg
origin: literature
these data refer to the methacrylate components.

12 Ecological information

- 12.1 Information on elimination (persistence and degradability): No data known.
- 12.2 Behaviour in environmental compartments: No data known.
- 12.3 Ecotoxicological effects:
Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition): Do not introduce into purification plants.
- 12.4 Further ecological information: Do not lead into wastewater. Do not introduce into in-shore waters and earth.

13 Disposal considerations

- 13.1 Material: Recommendation: Dispose of according to regulations by incineration in a special waste incinerator.
Observe the local byelaws.
European Waste Catalogue Ref.No.: 07 02 13 (AVV).
- 13.2 Contaminated packaging: Recommendation: Fully empty containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/national byelaws.

14 Transportation information

- 14.1 Land transportation ADR/RDI and GGVS/GGVE:
GGVS/GGVE-class..... : Non-hazardous material
ADR/RID-class..... : Non-hazardous material
Transportation emergency card number:
Warning board - Hazard No.:
Nomenclature..... :
Further information..... :
Limited Quantities :
- 14.2 Inland navigation ADN/ADNR:
Further information: Non-hazardous material
- 14.3 Transportation by sea IMDG/GGVsea:
IMDG/GGVsea-class .. : Non-hazardous material
EmS-No..... :
Marine pollutant :

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Proper shipping name.. :

Technical name..... :

LTD. QTY..... :

14.4 Air transportation ICAO-TI and IATA-DGR transportation by air:

ICAO/IATA-class..... : Non-hazardous material

Proper shipping name.. :

Technical name..... :

Further information:

Air mail transportation ...: permitted

15 Regulatory information

15.1 Identification according to EEC directives

Identification letter and hazard indication of the product:

EEC/R: -

EEC/S: -

Contains hazardous component(s) for labelling: -

15.2 National regulations:

Classification of possible adverse effects in the aquatic environment (Wassergefährdungsklasse):

Class 1 (slight adverse effects in the aquatic environment).

Classification according to VbF: n.a.

16 Other information

n.a. = not applicable

n.s. = not subject to

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations.